CX16 TELEMETARY CRYSTAL

Ultra-Miniature SMD Crystal

24MHz to 50MHz

FEATURES

- Ultra-miniature SMD design, 2.0 x 1.2 x 0.4mm
- Frequency Range 24MHz ~ 50MHz
- High shock and vibration resistance
- Hermetically sealed
- **Ceramic lid**
- **Excellent ageing characteristics**
- Full military testing available

DESCRIPTION

CX16 crystals are manufactured with an unique pholithographic and chemical milling process and are then sealed within a ceramic package for high stability and low ageing. The parts are available with tight calibration tolerances and high stability over temperature. With a fast start-up time the crystal is ideally suited to applications with space constraint and require components with low profiles.

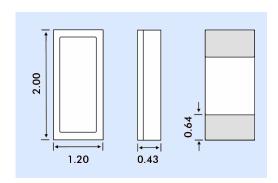
SPECIFICATION

Specifications stated are typical at 25°C unless otherwise indicated.

Specifications may change without notice.		
Fundamental Frequency:	24.0MHz	26.5MHz
Motional Resistance R (Ω):	100	90
Motional Capacitance C1 (fF):	1.3	1.4
QualityFactor Q (k):	30	30
Shunt Capacitance C0 (pF):	0.6	0.6
Standard Calibration Tolerance ¹ :	±100ppm or	tighter as required.
Load Capacitance:	10pF (or as specified)	
Drive Level:	200μW maximum	
Frequency Stability ^{1,2}		
-10° to +70°C:	±50ppm to ±10ppm	
-40° to +85°C:	±100ppm to ±20ppm	
-55° to +125°C:	±100ppm to ±30ppm	
Ageing, First Year:	±5ppm maximum	
	(Better than ±	- 1ppm available)
Shock, Survival:	5000g, 0.3ms, ½ sine	
Vibration, Survival ³ :	20g rms, 10~2000Hz swept sine	
Operating Temperature Range:	-10°C to +70°C (Commercial)	
	-40°C to +85	i°C (Industrial)
	-55°C to +12	25°C (Military)
Storage Temperature Range:	-55° to +125°C	
Maximum Process Temperature:	+260°C for 20 seconds	

- Other tolerances available, contact Euroquartz sales
- 2. Does not include calibration tolerance. (Frequency stability characteristics follow that of the AT-Cut thickness-shear mode.)
- 3. Per MIL-STD-202G, Method 204D, Condition D. Random vibration testing also available.

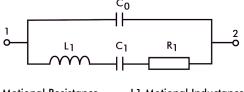
OUTLINE & DIMENSIONS



TERMINATION - PLATING

Designation	Termination
SM1	Gold Plated (Lead Free)

CRYSTAL EQUIVALENT CIRCUIT



R1 Motional Resistance C1 Motional Capacitance L1 Motional Inductance C0 Shunt Capacitance

PACKAGING

CX16 crystals are supplied tray packed

HOW TO ORDER LOW PROFILE CX16L CRYSTALS

